

# Zefeng (Daniel) Wang

Availability: September – December 2021

*Does not require sponsorship*

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## EDUCATION

Northeastern University, Boston, MA

December 2021

Khoury College of Computer Sciences

GPA: 3.81/4.00

*Candidate for Bachelor of Science in Computer Science & Business Administration (Finance)*

*Minor in Mathematics*

**Relevant Courses:** Algorithms and Data, Object Oriented Design, Linear Algebra, Computer Systems, Database Design

**Honors and Awards:** Dean's List, International Scholar, Top 10/Best Rookie Award at Hack Beanpot 2019

## COMPUTER KNOWLEDGE

**Languages:** JavaScript/TypeScript (NodeJS, React), Java, Python, HTML, CSS, Golang, SQL, C,

**Tools/Libraries:** Docker, Firebase, Google Cloud (Firestore, Functions, Storage), JUnit, Kubernetes, Unix, NumPy, pandas

**Miscellaneous:** Git, GitHub, JSON, npm, RESTful APIs, XML, YAML

## EXPERIENCE

**Software Developer Co-op @ Intuit**

*May 2020 – December 2020*

- Improved accessibility of metrics using Java and Go on the Observability team for QuickBooks Online product
- Developed API in Go by implementing schema & CRUD functions on a MySQL database, configuring Elasticsearch index to improve search efficiency, and setting up infrastructure for Kubernetes cluster
- Used Micrometer and Hystrix (Java Spring) to create a filter for unnecessary data to improve readability of metrics
- Adopted Spring's aspect-oriented programming to annotate metrics and decrease code complexity via abstraction

**Backend Web Engineer @ BusRight, Inc**

*November 2019 – November 2020*

- Improved web API by adding new features, enforcing test-driven development, and increasing efficiency
- Developed password reset process by adding functionality to get info from database & send emails via SendGrid
- Enforced persistent notifications by writing endpoints to get/send notifications to collections in Cloud Firestore
- Added Cloud Functions for daily database backup and profile picture functions triggered on user deletion/creation

**Project Lead, Developer @ Sandbox at Northeastern**

*September 2019 - Present*

- Leading team of three developers and designer to build web application for research client
- Created mobile application for research client to study memory in older populations using React Native and Expo
- Implemented changes to SearchNEU, to ensure accurate, durable, and accessible data for over 50,000 users

**Core Team – Sponsorship @ HackBeanpot Inc**

*May 2019 – Present*

- Engaged in agile environment to organize annual hackathon for approximately 200 Boston students
- Devised sponsorship packet and worked with dozens of companies to raise over \$20,000 in financial backing
- Led team of three in revamping judging system for students' projects to be more holistic and efficient
- Designed algorithm for judging scheduling to resolve shortcomings with prior technology
- Implemented interactive packet on website using React functional components and Gatsby.js

## PROJECTS

**GratitudeNU** (TypeScript, NextJS, NestJS, PostgreSQL)

*January – April 2021*

- Developed full-stack application for users to play game together concurrently using NestJS Server-Sent Events
- Implemented API using NestJS (Express.js) service/controller architecture to handle multiple users' interactions
- Designed UI in NextJS (React) including an interactive game interface and React hook for managing sockets

**MGH Video Journal** (React Native, TypeScript)

*December 2020 – January 2021*

- Built mobile app using React Native that allows study participants to record videos that are uploaded to Dropbox
- Implemented Google Cloud Function to authenticate users and sends files from Cloud Storage via Dropbox API
- Developed various features (ex. custom navigation, pages, etc) using React Native components with Expo

**SearchNEU** (NodeJS, React, TypeScript)

*September 2019 – August 2020*

- Migrated data to relational database (PostgreSQL) by creating data models using Sequelize ORM
- Developed toggle and dropdown components in React to improve loading times ~30x and enable filtered search
- Rewrote scraper classes that produce info from colleges' sites with Cheerio implementation of jQuery
- Refactored JavaScript backend and enforcing reliability using Jest framework and snapshot testing